

## ABSTRACT

An audio signal processing method and apparatus are provided which includes a plurality of digital filters (DF0 to DF<sub>n</sub>) each supplied with an audio signal and a speaker array (10). Outputs from the digital filters DF0 to DF<sub>n</sub> are supplied to speakers SP0 to SP<sub>n</sub> included in the speaker array (10) to form a sound field. A predetermined delay time is set to be given in each of the digital filters (DF0 to DF<sub>n</sub>), to thereby form, in the sound field, a point where the sound pressure is higher than in the surrounding and a point where the sound pressure is lower than in the surrounding. A low-pass filter characteristic is given to the frequency response of the digital filters (DF0 to DF<sub>n</sub>). Also, a pseudo pulse train is used to enhance the setting resolution of the delay time.